

Homework 3 MATH 304 Section 3

Assigned: Wednesday, September 10.

Potentially Collected: Wednesday, September 17.

1. Find an equation relating a , b , and c so that the linear system

$$2x + 2y + 3z = a$$

$$3x - y + 5z = b$$

$$x - 3y + 2z = c$$

is inconsistent for any values of a , b , and c that satisfy that equation.

2. Determine the reduced row echelon form of

$$\begin{pmatrix} \cos(\theta) & \sin(\theta) \\ -\sin(\theta) & \cos(\theta) \end{pmatrix}$$